

February 9, 2018

Michael, Brittany & Margie:

In summary to our quality assurance meeting yesterday, the following changes should be made to the WaterGen QAPP:

1. APTIM will drain water from the WaterGen atmospheric water generator (AWG) weekly, or twice per week, depending on the level in the holding tank as indicated by the electronic (% full) meter at approximately 50% full. The percent full value is for indication only and this reading is not critical to the operation of the AWG.
2. Record the volume of water drained through the brass water meter on the floor as well as the volume of water dispensed to sample containers through the finished water dispenser. These sample volumes will be recorded on a data sheet located next to the AWG and transferred to a spreadsheet and transmitted to WaterGen and EPA (Michael Jahne) on a weekly basis.
3. Independent of biological sampling, collect a water sample for measuring pH and conductivity with the YSI 556 every time that water is drained from the unit (either weekly or twice per week).
4. Analyze the water sample from the ambient finished water dispenser for pH and conductivity. Water drained by the floor drain will not be analyzed for pH and conductivity.
5. Record the temperature of the sample water for indication only. The temperature reading on the YSI 556 is not settable except by the factory and is not a critical measurement.
6. The YSI 556 will be calibrated monthly with pH 7 & 4 buffers and checked for every sampling event with a pH 6 check standard. The acceptance criteria for the pH 6 check standard is ± 0.2 pH units.
7. The YSI 556 will be calibrated monthly for conductivity with a 1,000 $\mu\text{S}/\text{cm}$ standard and checked every sampling event with a 100 $\mu\text{S}/\text{cm}$ check standard. The acceptance criteria for the 100 $\mu\text{S}/\text{cm}$ check standard is $\pm 0.5\%$ of the reading or ± 0.001 mS/cm ; whichever is greater using the 4-meter cable.
8. All YSI 556 calibration data will be recorded on the calibration logsheet for the YSI 556 associated with T&E SOP 512.
9. All sample data will be recorded on the datasheet for YSI 556 analysis associated with T&E SOP 512.
10. Download air temperature and humidity data weekly from the Dickson logger and transmit the data to WaterGen and EPA on a weekly basis.
11. APTIM QA Manager, Ms. Ginger Britt, will QC the data prior to submittal.
12. Submit electronic data monthly to EPA.

If there is anything that I forgot, please let me know. Thanks!



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Ex. 4 - CBI

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